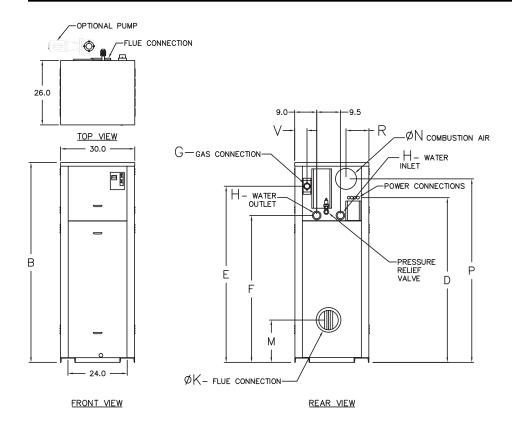
Job: Engineer: Contractor: Prepared By:Indoo		MVB <sup>TM</sup> - Type H Heating/Hot Water Supply Boilers Models H7 504-2004
84% Thermal Efficiency at Full R 100% Factory Fire Tested Maximum Outlet Water Temperar Minimum Acceptable Inlet Water Full Safety Diagnostics with Hist Footprint: Less Than 5-1/2 ft <sup>2</sup> Limited Twenty-Year Thermal Sh Limited Ten-Year Heat Exchange Electronic Modulation, Constant TempTracker Mod Controller wit Status Display Lights	ture: 220°F Temperature: 120°F ory ock Warranty er Warranty Ratio 1.4:1 Turndown	
Heat Exchanger  ■ Bronze Headers  ■ ASME H Stamped  160 PSIG Working Pressure  ■ National Board Approved  ■ Fin Tubing  □ Copper – Standard  □ Cupro Nickel – Option A-3  ■ ASME Powder-Coated Tube Sheet  ■ Silicone High Temp O-Rings  ■ ASME Pressure Relief Valve  □ 60 PSIG – Standard  □ PSIG – Optional  ■ Temperature and Pressure Gauge, Shipped Loose  ■ Stainless Steel Evaporator Plate  Control  ■ 120V, 60Hz, 1Ø, Power Supply  ■ 120/24V 60Hz Transformer  ■ Ignition Module  □ 3-Try – Standard  □ Single-Try – Option C-6  ■ Hot Surface Ignition (HSI)  ■ Remote Flame Sensor  ■ High Limit, Manual Reset, Fixed, 240°F  ■ On/Off Power Switch  ■ Flow Switch  ■ Blocked Vent Pressure Switch  ■ Combustion Air Proving Switch  ■ Pump Switch  ■ Pump Time Delay  ■ Diagnostics Panel  ■ Modulating Temperature Control	Burner  Ultra-Low NOx: Less than 20 II  Gas Train  Fuel  Natural Gas  Propane  Zero Governor Regulator  Dual-Seat Combination Valve  Electronic Modulating Firing M  Construction  Indoor/Outdoor Construction  Front Controls Enclosed  PolyTuf Powder Coat Finish  Rear Connections (Water, Ele Gas, Vent, Combustion Air)  Design Certified ANSI Z21.13/CSA 4.9  Venting  Vent Termination Cap  Outdoor - Option D-11  Indoor, Vertical (by others)  Combustion Air  In-Line Filter Kit – Option II  Air Intake Elbow – Option II  Extractor – Optional  By others  Not required	Controller, Up to 4 Boilers, OA Reset  B-37 Temp-Tracker Mod+ Digital Controller, Up to 10 Boilers, OA Reset  B-38 Temp-Tracker Mod+ Digital Controller, Up to 16 Boilers, OA Reset  Y-241 Electronic Sequencer, Up to 4 Boilers  Y-281 Electronic Sequencer, Up to 8 Boilers  Ctrical, Options  A-13 Air Vent, Auto, 150 PSI F-10 Low Water Cut-Off, Remote Probe I-1 High Limit, Auto Reset, Adj., 100-240°F I-2 High Limit, Manual Reset, Adj., 100-240°F I P Pump: HP, 120V, 1Ø, 60Hz Water Hardness: GPG Cast Iron



Catalog No.: 2000.364A Effective: 8-15-07 Replaces: 6-15-07

## **MVB<sup>™</sup> – Type H** Models H7 504-2004



## **CLEARANCES**

	Certified Minimum	Recomm. Service
Front	24"	24"
Rear	12"	24"
Right	1"	-
Left	1"	
Тор	0"	10"
Floor	0"	
Vent	1"	

## PUMP HP - AMPS\*

Model	Water Hardness							
(H7-)	Soft	Medium	Hard					
504	1/4 - 6	1/4 - 6	3/4 - 11					
754	1/4 - 6	1/2 - 7	3/4 - 11					
1104	1/4 - 6	1/2 - 7	1 - 14					
1504	1/2 - 7	1 - 14	1 - 14					
2004	1 - 14	1-1/2 - 15	1-1/2 - 15					

<sup>\*</sup> Current draw is for pump only

Model	МЕ	BTUH		Dimensions (in.)											Ship	Foot-			
(H7-)	WIBTOTT		MBTOIT		В	D	Е	F	G	Н	K	M	N	Р	R	٧	Weight	print	Amps*
(117 )	Input	Output	Height				NPT	NPT	Flue Ø		C/A Ø				(Lbs.)	(Ft²)			
504	500	420	43	30	35	23-3/4	1	2	8	14-1/8	6	36	6	2	600	5.4	12		
754	750	630	49	36	41	29-3/4	1	2	10	16	6	42	6	2	670	5.4	12		
1104	1100	924	55	43	47	35-3/4	1-1/4	2-1/2	10	16	6	49	6	2	720	5.4	12		
1504	1500	1260	61	50	53	41-3/4	1-1/4	2-1/2	12	18-1/8	8	53	6	2	780	5.4	12		
2004	1999	1679	75	61	65	53-3/4	2	2-1/2	14	20-1/8	8	69	9	5	940	5.4	18		

Ratings shown are for elevations up to 4,500 feet. For installations at elevations above 4,500 feet, please consult the factory for additional instructions.

Effective: 8-15-07

## **RATES OF FLOW AND PRESSURE DROPS**

Model	Model 20°F ΔT			30°F ΔT 40°F ΔT*			М	aximum F	low	Minimum Flow*			
(H7-)	GPM	ΔP (ft.)	GPM	ΔP (ft.)	GPM	ΔP (ft.)	GPM	ΔP (ft.)	ΔT (°F)		ΔP (ft.)	ΔT (°F)	
504	42	2.7	28	1.4	N/A	N/A	100	11.3	8	25	1.1	34	
754	63	6.0	42	2.9	32	1.7	100	13.8	13	32	1.7	40	
1104	92	13.3	62	6.7	46	4.1	113	18.6	16	46	4.1	40	
1504	N/A	N/A	84	13.3	63	8.0	113	22.2	22	63	8.0	40	
2004	N/A	N/A	112	26.9	84	16.0	113	27.2	30	84	16.0	40	

<sup>\*</sup> Closed systems only

Catalog No.: 2000.364A

Replaces: 6-15-07

<sup>-</sup> For direct vent applications, please contact the factory about relocating the pump.

<sup>\*</sup> Current draw is for heater only.
(Supply breaker must have delayed trip.)